TOWN OF SOUTHINGTON
PUBLIC WORKS COMMITTEE

Regular Meeting Minutes
March 7, 2012

Present:  Members: Chairman Peter Romano, Sandra Feld, Albert Natelli, Christopher Palmieri, Garry Brumback, Chief Jack Daly.  Ex-Officio Members: Jim Grappone, Annette Turnquist, Steve Wlodkowski

CALL TO ORDER: Chairman Romano called the meeting to order at 4:30 p.m. in the Town Hall Council Chambers, 75 Main Street, Southington, CT.

MINUTES: Motion by Sandra Feld, seconded by Chris Palmieri to accept the minutes of the February 1, 2012 meeting. Motion carried.

COMMUNICATIONS:
a. Reports on Ongoing Operations/Special Notices – This section was skipped.
b. Members Communications – This section was skipped.
c. Public Communications - Art Cyr talked about the pavement management system.

NEW BUSINESS:
a. Street Light Maintenance Contract. The letter from Annette Turnquist was discussed (copy attached). Motion by Chris Palmieri, seconded by Al Natelli, to recommend approval. Motion carried unanimously. It will be sent to the Council for final approval.

OLD BUSINESS:
a. Pavement Management System. We received a presentation on the pavement management system (copy attached). The committee was impressed and recommended moving forward.
b. Trench Restoration Program. 172 trench permits were pulled last year. We are looking at sending out a bid to restore those trenches in the spring. We will be putting a trench list together in March and will try to do the work in the summertime around the school year. We have received standards from Yankee Gas and are looking at allowing them to do their own trenches to our standards and inspection criteria. We recognize that trench restoration is a problem and we are looking at our own standards and ways in which to do better.
c. Rails to Trails Kiosk. Pete Romano showed a map of the trail and asked Jim Grappone to modify it so that it highlights the trail and include key distance markers. We want to get it up as soon as possible for Council approval (Note: Council approved on March 12). This map should go up into the kiosk shortly. The Chamber component was discussed about the fact that the Chamber wanted to charge to put any information from its businesses on the kiosk. The committee believes that because it is a town facility that there should not be any differentiation between Chamber members and nonmembers, and they are not even sure
we ought to charge at all. The item was tabled pending additional conversation with the Chamber but the map will go up regardless.

ADJOURNMENT:
There being no other business, meeting adjourned at 5:40 p.m.

Respectfully submitted,

Peter J. Romano, Jr.
Chairman

Attachments:
1) Streetlight Maintenance memo
2) Pavement Management System presentation
MEMORANDUM

TO: Public Works Committee

FROM: Annette S. Turnquist, Assistant Town Engineer

RE: Streetlight Maintenance Contract

DATE: March 1, 2012

The two-year Streetlight Maintenance Contract with Pro Energy Lighting, LLC, expires on May 13, 2012. The Town does have the option to extend the contract for an additional two years with the cost to be negotiated.

For the first year of Pro Energy’s service, the fee was $10.00 per light per year or $41,320.00. For the current year, the fee is $10.25 per light per year. With the addition of 28 new lights, the total is $42,640.00. According to Pro Energy, they are losing money at the current rate. This is largely due to an increase in material costs. According to their records, they would have to increase their fee to $13.15 per light per year in order to break even. They requested an increase to $14.47 per light per year which would provide Pro Energy with a 10% profit.

Since Pro Energy requested a $4.22 per light per year increase, I did some research on current rates for Streetlight Maintenance Contracts to determine whether it is in the Town’s best interest to extend the current contract or formally request new proposals. I found that prices range from $13.56 to $19.20 per light per year. The low end of that reflects Enfield’s contract with Republic ITS. They provided the second lowest proposal to the Town of Southington two years ago. In sharing my findings with Pro Energy, they have lowered their request to $13.50 per light per year. Based on this year’s number of lights, that is equivalent to $56,160.00 in total.

Since Pro Energy was able to beat the lowest current rate I was able to find, and since I am very pleased with their performance, my recommendation is to extend their contract for an additional two years.

AST
Presentation Overview

- Pavement Management Concepts
- Pavement Management in Southington
  - Current Conditions & Backlog
  - Budget Analysis
- Recommendations
What is Pavement Management?

- The practice of planning for pavement maintenance and rehabilitation with the goal of maximizing the value and life of a pavement network.

Otherwise known as
“Getting the Biggest Bang for Your Buck”
Pavement Management Concepts

The Process

- Pavement Section Inventory
- Pavement distress identification and quantification *(Visual Inspection Only)*
- Pavement Condition Index (PCI) calculation on a 0 - 100 scale
- Define Treatment Options and Costs
- Test various Budget Scenarios
- Develop list of candidate projects
- Apply engineering and local judgment to define annual road program
Pavement Management Concepts

Pavement Deterioration Curve

- Excellent
- Good
- Fair
- Poor
- Very Poor
- Failed

40% Drop in Quality
75% of Life
12% of Life

$1 for renovation here
Will cost $18 – $23 Here
Pavement Management Concepts

No Immediate Maintenance (PCI 93-100)

Mount Vernon Road
Pavement Management Concepts

Routine Maintenance Condition (PCI 86-92)

Saddlebrook Path

Treatment options – Crack sealing, patching
Pavement Management Concepts

Preventive Maintenance Condition (PCI 75-85)

Westbrook Road

Treatment options – Crack sealing, surface seal, thin overlay
Pavement Management Concepts

Structural Improvement Condition (PCI 57-74)

Sun Valley Drive

Treatment options – Overlay or Mill & Overlay
Pavement Management Concepts

School Street

Treatment options – Reclamation, Reconstruction

Base Rehabilitation Condition (PCI 0-56)
Average Roadway Pavement Condition Index = 76
Pavement Management in Southington

Roadway Pavement Condition Index Distribution

[Bar chart showing distribution of pavement condition indices.]
Pavement Management in Southington

Current Roadway Pavement Backlog

<table>
<thead>
<tr>
<th>Pavement Treatment Band</th>
<th>Miles</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Do Nothing</td>
<td>33.1</td>
<td>$0</td>
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<tr>
<td>Routine Maintenance</td>
<td>26.8</td>
<td>$430,000</td>
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<tr>
<td>Preventative Maintenance</td>
<td>50.7</td>
<td>$5,280,000</td>
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<tr>
<td>Mill &amp; Overlay</td>
<td>69.8</td>
<td>$23,690,000</td>
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<tr>
<td>Base Rehabilitation</td>
<td>22.4</td>
<td>$17,040,000</td>
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<tr>
<td><strong>Pavement totals:</strong></td>
<td><strong>202.8</strong></td>
<td><strong>$46,440,000</strong></td>
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Pavement Management in Southington

Current Roadway Pavement Backlog Summary

**COST**
- 37%
- 1%
- 11%
- 51%

- Do Nothing
- Routine Maintenance
- Preventative Maintenance
- Mill & Overlay
- Base Rehabilitation

**MILES**
- 13%
- 11%
- 25%
- 35%
Funding Scenarios

- Current Funding - $1.0 M/yr for 10 years (PCI decreases to 54)
- Maintain PCI - $4.5 M/yr for 10 years (PCI remains at 76)
- Improve PCI - $5.5 M/yr for 10 years (PCI increases to 81)
Pavement Management in Southington

Future Roadway Pavement Condition Comparison

- **Current Funding**
- **Maintain PCI**
- **Improve PCI**

<table>
<thead>
<tr>
<th>Year</th>
<th>Current Funding</th>
<th>Maintain PCI</th>
<th>Improve PCI</th>
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<tr>
<td>2011</td>
<td>88</td>
<td>76</td>
<td>84</td>
</tr>
<tr>
<td>2012</td>
<td>92</td>
<td>81</td>
<td>84</td>
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<td>2013</td>
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<td>76</td>
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<tr>
<td>2021</td>
<td>56</td>
<td>76</td>
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Future Roadway Pavement Condition Comparison

- **Current Funding**
- **Maintain PCI**
- **Improve PCI**

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Pavement Management in Southington

Annual Maintenance Cost Comparison

Annual Road Budget
$1,000,000

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Total Value of Road Network
$160,000,000

Annual Auto Maintenance $$$
$125

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Value of a New Car
$20,000
Pavement Management in Southington

Cost Comparison of 2 Roadway Repair Practices

(Example below of a typical street)

- Capital Repair Only Approach = $99/ sq yd over 40 years
- Maintenance Based Approach = $67/ sq yd over 40 years

Pavement Condition Index

- Year: 2012, 2016, 2020, 2024, 2028, 2032, 2036, 2040, 2044, 2048, 2052
Pavement Management in Southington

Cost Comparison of 2 Roadway Repair Practices

(Example below of a typical street)

- Capital Repair Only Approach = $99/sq yd over 40 years
- Maintenance Based Approach = $67/sq yd over 40 years

* Costs in today’s dollars
Annual Road Program Development

- Determine effective funding levels

- System recommends roads of highest benefit to the Town based on:
  - High Traffic Volume
  - Lower Repair Cost
  - Longer Repair Life Expectancy
  - Poorer Road Conditions

- The system allocates annual budget to high benefit roads and analyzes the effect on overall town wide conditions.

- Engineering judgment is used to adjust the program to reflect coordination with other projects, neighborhood programs, mobilization efficiencies, etc.
Recommendations

- Identify pavement condition goals
- Budget adequate funds to achieve those goals
- Use the Right Tool at the Right Time in the Right Place
- Implement full spectrum of pavement treatments
- Continue to maintain updated pavement management data
- Continue to utilize pavement management system to help plan optimal road program
Town of Southington, CT
Pavement Management Study

Questions and Answers

Presented by: Vanasse Hangen Brustlin, Inc.
March 12, 2012